RCA Cunningham Radiotron

RCA-2A7

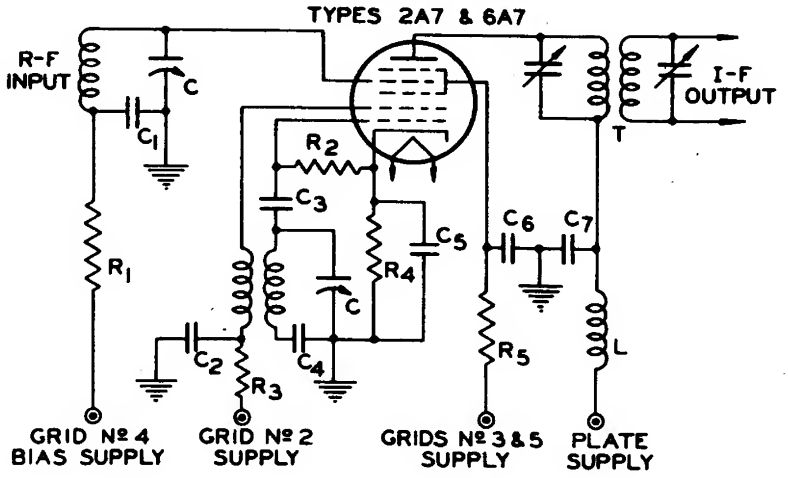
2A7

PENTAGRID CONVERTER

Heater	Coated Unipotential Cathode	
Voltage	2.5	a-c or d-c volts
Current	0.8	amp.

For further data, see Type 6A7. The 6A7 and 2A7 are identical except for heater rating.

TYPICAL PENTAGRID CONVERTER CIRCUIT



C = GANGED TUNING CONDENSER (40 TO 350 μμf)

C_1, C_2, C_5, C_6, C_7 = 0.1 μf

C_3 = 0.00025 μf

C_4 = SEE TABLE BELOW

R_1 = 250 000 OHMS, 0.1 WATT

R_2 = 10000-50000 OHMS, 0.1 WATT

R_3 = OSCILLATOR-ANODE (GRID Nº 2) VOLTAGE-DROPPING RESISTOR

R_4 = 150-300 OHMS, 0.1 WATT

R_5 = SCREEN (GRIDS Nº 3 & 5) FILTER RESISTOR

L = 60-MILLIHENRY R-F CHOKE

T = 465-KC I-F TRANSFORMER

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.

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TYPES 2A7 AND 6A7

TYPICAL PENTAGRID CONVERTER CIRCUIT

COIL DESIGN DETAILS

(continued from preceding page)

FREQUENCY BAND MEGACYCLES		0.15 TO 0.40	0.55 TO 1.5				1.5 TO 4.0				4.0 TO 10				10 TO 25			
ASSEMBLY Nº		1	1		2		2				3				3			
		TURNS	TURNS	WIRE *	TURNS	WIRE *	TURNS	WIRE *			TURNS	WIRE *			TURNS	WIRE *		
R-F COIL (L1)		422	116	30 SSE	146	32ENAM	36.2	30ENAM			10.1	30ENAM			4.4	20ENAM		
OSC. GRID COIL (L2)		198	80	30 SSE	92	32ENAM	30.9	30ENAM			9.7	30ENAM			4.3	20ENAM		
OSC. PLATE COIL (L3)		60	30	30 SSE	20	32ENAM	12	30ENAM			12	36ENAM			6	36ENAM		
OSC. TRACKING COND. (C4)		117 μμf	400 μμf				1070 μμf				2900 μμf				7300 μμf			
Nº 1		MULTI-LAYER COILS																
Nº 2		SINGLE-LAYER COILS																
Nº 3		SINGLE-LAYER COILS																

